

WO 2005/074973 A2

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number  
WO 2005/074973 A2

(51) International Patent Classification<sup>7</sup>: **A61K 38/18.**  
A61P 37/02, C12Q 1/68, G01N 33/68, C12Q 1/00

(21) International Application Number:  
PCT/EP2005/000934

(22) International Filing Date: 31 January 2005 (31.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0402051.7 29 January 2004 (29.01.2004) GB

(71) Applicant and

(72) Inventor: METCALFE, Susan, Marle [GB/GB]; 10  
Fendon Road, Cambridge, CB1 7RT (GB).

(74) Agent: GEARY, Stephen; Bawden & Associates, 4 The  
Gatehouse, 2 High Street, Harpenden, Herts, AL5 2TH  
(GB).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EB, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PI, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TI, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF INDUCING OR MODULATING IMMUNE RESPONSE

(57) Abstract: The use of axotrophin, also known as MARCH VII to induce or regulate immune response to an antigen whether foreign or self, suitably in a vertebrate, for example a mammal is disclosed. Isolated axotrophin and nucleotides and polypeptides encoded by or derived from axotrophin, compositions containing one or more thereof and assay methods are provided as further aspects of the invention.